

Appl. No.: 10/670,771  
Amdt. dated June 20, 2006  
Reply to Office Action of February 27, 2006

## REMARKS

The following arguments and the accompanying affidavit of Richard D. Guarino, Bryce N. Chaney, Andrea Liebmann-Vinson, Perry D. Haaland, and Mohammad A. Heidaran were not presented earlier as Applicants earnestly believed that the previously presented claims recited patentable subject matter. Pursuant to 37 C.F.R. § 1.116 and the *Manual of Patent Examining Procedure* (MPEP), any affidavits and other evidence that will place the application in condition for allowance may be entered after final rejection (MPEP § 714.12). Applicants believe that the following arguments and the accompanying affidavit overcome the Examiner's rejection of pending claims 30, 31, 38, and 65-85, and that these claims are in condition for allowance. Accordingly, the Examiner is respectfully requested to enter this affidavit into the record to further prosecution or to place the application in better condition for appeal.

The Examiner's comments in the Office Action are addressed below in the order set forth therein.

### The Rejection of the Claims Under 35 U.S.C. § 103(a) Should Be Withdrawn

Claims 30, 31, 38, and 65-85 have been rejected under 35 U.S.C. § 103(a) on the grounds that they are unpatentable over Campbell *et al.* (U.S. Patent Application Publication No. 20030162289) in view of Glass *et al.* (*Biomaterials*, 17:1101-08, 1996). This rejection is respectfully traversed.

Pursuant to the guidelines set forth in the MPEP, "subject matter that is prior art under 35 U.S.C. 102 can be used to support a rejection under section 103" (§ 2141.01, citing *Ex parte Andresen*, 212 USPQ 100, 102 (Bd. Pat. App. & Inter., 1981)). Applicants respectfully submit that the Campbell *et al.* published application has been improperly cited in the present rejection under 35 U.S.C. § 103(a). Specifically, the Campbell *et al.* published application does not constitute 102(a) prior art against pending claims 65, 66, 69, 70-78, 80, and 82-85, which claim subject matter added when the present continuation-in-part application was filed on September 26, 2003. As set forth in the accompanying affidavit of Richard D. Guarino, Bryce N. Chaney, Andrea Liebmann-Vinson, Perry D. Haaland, and Mohammad A. Heidaran, the subject matter claimed in pending claims 65, 66, 69, 70-78, 80, and 82-85 was conceived of and reduced to

Appl. No.: 10/670,771  
Amdt. dated June 20, 2006  
Reply to Office Action of February 27, 2006

practice in the U.S. prior to August 28, 2003 (the publication date of the Campbell *et al.* published application).

Furthermore, the Campbell *et al.* published application does not constitute 102(e) prior art against any of the pending claims in the present application (*i.e.*, claims 30, 31, 38, and 65-85). This is because the Campbell *et al.* published application was filed *prior* to the filing date of the present application but published *after* the date for which the subject matter claimed in pending claims 65, 66, 69, 70-78, 80, and 82-85 was conceived of and reduced to practice, and the earliest priority date claimed in the application (*i.e.*, August 15, 2003), which applies to pending claims 30, 31, 38, 67, 68, 79, and 81. The subject matter of the Campbell *et al.* published application and the claimed invention were, at the time the claimed invention was made, owned by the same person or subject to an obligation of assignment to the same person. Copies of the assignments to Becton, Dickinson, and Company that were recorded with the USPTO are submitted herewith in Appendix A as evidence of common ownership. Under 35 U.S.C. § 103(c), such commonly owned 102(e) prior art cannot be used to preclude patentability under 35 U.S.C. § 103(a).

In conclusion, Applicants respectfully submit that consideration of the Campbell *et al.* published application with respect to an obviousness inquiry is improper. Applicants respectfully ask that this rejection be withdrawn.

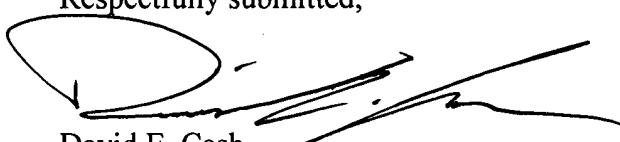
Appl. No.: 10/670,771  
Amdt. dated June 20, 2006  
Reply to Office Action of February 27, 2006

## CONCLUSION

In view of the foregoing arguments, Applicants respectfully submit that the rejection under 35 U.S.C. § 103(a) has been obviated and the claims are in condition for allowance. Early notice to this effect is solicited. If, in the opinion of the Examiner, a telephone conference would expedite the prosecution of the subject Application, the Examiner is invited to call the undersigned attorney.

It is not believed that extensions of time or fees for net addition of claims are required, beyond those that may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 CFR § 1.136(a), and any fee required therefore (including fees for net addition of claims) is hereby authorized to be charged to Deposit Account No. 16-0605.

Respectfully submitted,

  
David E. Cash  
Registration No. 52,706

Customer No. 47656  
**ALSTON & BIRD LLP**  
Bank of America Plaza  
101 South Tryon Street, Suite 4000  
Charlotte, NC 28280-4000  
Tel Raleigh Office (919) 862-2200  
Fax Raleigh Office (919) 862-2260

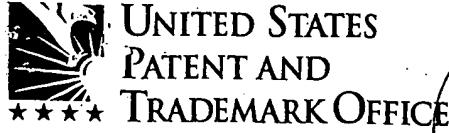
**CERTIFICATE OF MAILING**  
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 20, 2006

  
\_\_\_\_\_  
Lynda-Jo Pixley

)

# APPENDIX A

**Attorney Docket No. 035510/296072(P-5840-P1)  
Appl. No. 10/670,771  
Filing Date: September 26, 2003**



MAY 09, 2002



BECTON, DICKINSON AND COMPANY  
DAVID W. HIGET  
INTELLECTUAL PROPERTY DEPARTMENT  
1 BECTON DRIVE - MAIL CODE: 089  
FRANKLIN LAKES, NJ 07417-1880

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
[www.uspto.gov](http://www.uspto.gov)



\*102022204A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF  
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE  
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA  
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD  
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY  
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/06/2002

REEL/FRAME: 012673/0395  
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HEIDARAN, MOHAMMAD

DOC DATE: 11/12/2001

ASSIGNOR:

CAMPBELL, ROBERT L.

DOC DATE: 11/12/2001

ASSIGNOR:

SPARGO, CATHERINE A.

DOC DATE: 11/12/2001

ASSIGNOR:

WILKINS, JAMIE H.

DOC DATE: 11/12/2001

ASSIGNOR:

HAALAND, PERRY D.

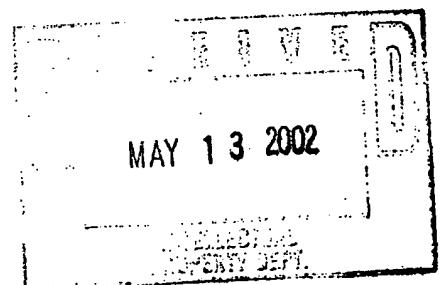
DOC DATE: 11/15/2001

ASSIGNEE:

BECTON, DICKINSON AND COMPANY  
INTELLECTUAL PROPERTY DEPARTMENT  
1 BECTON DRIVE, MAIL CODE: 089  
FRANKLIN LAKES, NEW JERSEY

07417-1880

MAY 13 2002



012673/0395 PAGE 2

SERIAL NUMBER: 09992124  
PATENT NUMBER:

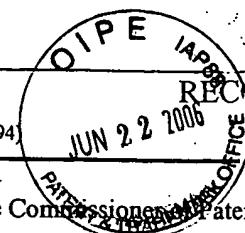
FILING DATE: 11/19/2001  
ISSUE DATE:

VIOLET MCCOY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)



03-19-2002

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

102022204

To the Honorable Commissioner of Patents and Trademarks: Please return the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Mohammad Heidaran, Robert L. Campbell, Catherine A. Spargo,  
Jamie H. Wilkins and Perry D. Haaland

Additional name(s) of conveying party(ies) attached?  Yes  No

3-6-02

3. Nature of conveyance:

Assignment  
 Security Agreement  
 Other:

Merger  
 Change of Name

Execution Date: November 12, 2002 and  
November 15, 2002

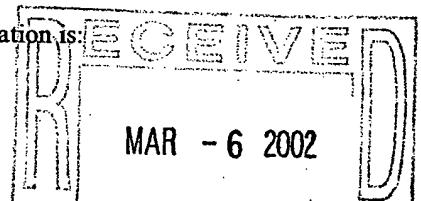
4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)  
09/992,124

B. Patent No.(s)

Additional numbers attached?  Yes  No



5. Name and address of party to whom correspondence concerning document should be mailed:

Name: BECTON, DICKINSON AND COMPANY

Internal Address: Intellectual Property Department  
Mail Code: 089

Street Address: 1 Becton Drive

City: Franklin Lakes State: NJ ZIP: 07417-1880

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR §3.41):

Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number: 02-1666

## DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David W. Hight, Reg. No. 30, 265

Name of Person Signing

2/rclor

Date

03/19/2002 GT0N11 00000059 021666 09992124

01 FC:5A1

40.00 CH

Total number of pages including cover sheet, attachments and document:

8

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**ASSIGNMENT**

*Serial No.:*

*Filed:*

**WHEREAS**, and Robert L. Campbell, residing at 607 Phar Lap Lane, Bahama, North Carolina 27503; Mohammad Heidaran, residing at 207 Painted Fall Way, Cary, North Carolina 27513; Catherine A. Spargo, residing at 7103 Eastridge Drive, Apex, North Carolina 27502; Jamie H. Wilkins, residing at 9 Pedestal Rock Lane, Durham, North Carolina 27712; and Perry D. Haaland, residing at 8914 Laurel Springs Drive, Chapel Hill, North Carolina 27516, all citizens of the United States of America (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to:

***PEPTIDES PROMOTING CELL ADHERENCE,  
GROWTH AND SECRETION***

*for which they have executed a Declaration for an application for Letters Patent of the United States of America; and*

**WHEREAS**, BECTON, DICKINSON AND COMPANY, a corporation of New Jersey, (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein.

**NOW, THEREFORE, BE IT KNOWN** that for and in consideration of the premises and in acknowledgment, confirmation and performance of obligations which arose out of the terms and conditions of Assignors' employment by Assignee at the time the invention was made, and other valuable considerations to them, the receipt and sufficiency of which are hereby acknowledged, Assignors have assigned, and transferred, and do hereby assign, and transfer unto said Assignee the entire right, title, and interest in and to all said inventions and discoveries disclosed in said application, whose identification above by serial number and filing date, when available, is hereby authorized, and in and to said application, all substitutions, divisions and continuations or continuations-in-part, thereof, and in and to all Letters Patents, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made; and

*Assignors hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue said Letters Patent in accordance with this Agreement; and*

*For the consideration aforesaid, Assignors covenant and agree with said Assignee that they have a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns; and*

*For the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection of the inventions and discoveries or that may be necessary to vest in Assignee the complete title to the inventions and discoveries and patents hereby conveyed and to enable it to record title.*

**IN TESTIMONY WHEREOF**, Assignors have hereunto set their hands and seals on the dates subscribed below.

Robert L. Campbell  
Robert L. Campbell

DATE: 01/12/01

STATE OF North Carolina)

COUNTY OF Durham)

**BE IT REMEMBERED**, that on this 12 day of November, 2001, before me, a Notary Public, personally appeared Robert L. Campbell, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, I and having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Linda W. Jingen  
Notary Public  
My Commission Expires: 4-21-2002

**IN TESTIMONY WHEREOF**, Assignors have hereunto set their hands and seals on the dates subscribed below.

MH / C  
Mohammad Heidaran

DATE: 11/12/01

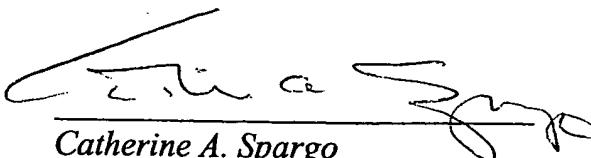
STATE OF North Carolina)

COUNTY OF Durham)

**BE IT REMEMBERED**, that on this 12 day of November, 2001, before me, a Notary Public, personally appeared Mohammad Heidaran, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, I and having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Linda Jr. Jingen  
Notary Public  
My Commission Expires: 4-21-2002

**IN TESTIMONY WHEREOF**, Assignors have hereunto set their hands and seals on the dates subscribed below.

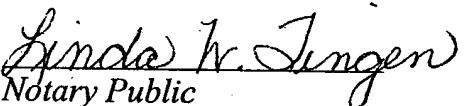
  
Catherine A. Spargo

DATE: 11/21/01

STATE OF North Carolina)

COUNTY OF Durham)

**BE IT REMEMBERED**, that on this 12 day of November, 2001, before me, a Notary Public, personally appeared Catherine A. Spargo, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, I and having first made known to her the contents thereof, she did acknowledge that she signed, sealed, and delivered the same as her voluntary act and deed for the uses and purposes therein expressed.

  
Linda W. Tingen  
Notary Public  
My Commission Expires: 4-21-2002

**IN TESTIMONY WHEREOF**, Assignors have hereunto set their hands and seals on the dates subscribed below.

Jamie H. Wilkins  
Jamie H. Wilkins

DATE: November 12, 2001

STATE OF North Carolina)

COUNTY OF Durham)

**BE IT REMEMBERED**, that on this 12 day of November, 2001, before me, a Notary Public, personally appeared Jamie H. Wilkins, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, I and having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Linda W. Jingen  
Notary Public  
My Commission Expires: 4-21-2002

**IN TESTIMONY WHEREOF**, Assignors have hereunto set their hands and seals on the dates subscribed below.

Perry D. Haaland  
Perry D. Haaland

DATE: Nov 15, 2001

STATE OF North Carolina)

COUNTY OF Johnston)

**BE IT REMEMBERED**, that on this 15th day of November, 2001, before me, a Notary Public, personally appeared Perry D. Haaland, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, I and having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Betty O. Stewart  
Notary Public  
My Commission Expires: 12-6-2002

Doc. No. 43669



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



P 5840P1

APRIL 21, 2004

PTAS

\*700078283A\*

DAVID W. HIGHET  
CHIEF INTELLECTUAL PROPERTY COUNSEL  
1 BECTON DRIVE, MC 089  
FRANKLIN LAKES, NJ 07417

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/14/2004

REEL/FRAME: 014516/0983  
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GUARINO, RICHARD DAVID

DOC DATE: 04/02/2004

ASSIGNOR:

CHANAY, BRYCE NELSON

DOC DATE: 04/05/2004

ASSIGNOR:

LIEBMAN-VINSON, ANDREA

DOC DATE: 04/05/2004

ASSIGNOR:

HAALAND, PERRY D.

DOC DATE: 04/05/2004

ASSIGNOR:

HEIDARAN, MOHAMMAD A.

DOC DATE: 04/02/2004

014516/0983 PAGE 2

## ASSIGNEE:

BECTON, DICKINSON AND COMPANY  
1 BECTON DRIVE  
FRANKLIN LAKES, NEW JERSEY 07417

SERIAL NUMBER: 10670771  
PATENT NUMBER:

FILING DATE: 09/26/2003  
ISSUE DATE:

SHAREILL COLES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

JUN 22 2006

P-5840P1

Form PTO-1595  
(Rev. 10/02)  
OMB No. 0651-0027 (exp. 6/30/2005)

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Richard David Guarino; Bryce Nelson Chaney;  
Andrea Liebmann-Vinson; Perry D. Haaland;  
and Mohammad A. Heidaran

Additional name(s) of conveying party(ies) attached?  Yes  No

## 3. Nature of conveyance:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger         |
| <input type="checkbox"/> Security Agreement    | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other _____           |   |

Execution Date: April 2 and April 5, 2004

## 2. Name and address of receiving party(ies)

Name: Becton, Dickinson and Company

Internal Address: \_\_\_\_\_

Street Address: 1 Becton Drive

City: Franklin Lakes State: NJ Zip: 07417

Additional name(s) & address(es) attached?  Yes  No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) 10/670,771

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David W. Hight

Chief Intellectual Property Counsel  
Internal Address: \_\_\_\_\_6. Total number of applications and patents involved: 

7. Total fee (37 CFR 3.41).....\$ 40.00

 Enclosed Authorized to be charged to deposit account

## 8. Deposit account number:

02-1666

Street Address: 1 Becton Drive, MC 089

City: Franklin Lakes State: NJ Zip: 07417

DO NOT USE THIS SPACE

## 9. Signature.

Jacinda Wagner, Reg. No. 33,310  
Name of Person Signing

Jacinda Wagner  
Signature

4-12-04

Date

Total number of pages including cover sheet, attachments, and documents: 

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**ASSIGNMENT OF APPLICATION FOR UNITED STATES PATENT**

WHEREAS, Richard David Guarino, Bryce Nelson Chaney, Andrea Liebmann-Vinson, Perry D. Haaland and Mohammad A. Heidaran hereinafter (collectively) referred to as the assignor, have invented a certain improvement relating to PEPTIDES FOR ENHANCED CELL ATTACHMENT AND GROWTH, for which said assignor has caused an application for a United States Patent to be prepared,

[ ] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the U.S. Patent and Trademark Office;

[ X ] said application having been filed in the U.S. Patent and Trademark Office on September 26, 2004, and given Application No. 10/670,771;

[ ] said application having been filed under the Patent Cooperation Treaty on \_\_\_\_\_, and given the title of \_\_\_\_\_ the United States of America having been designated.

AND WHEREAS Becton Dickinson and Company, having an address at Mail Code 089, 1 Becton Drive, Franklin Lakes, New Jersey 07417-1880, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any divisions and continuations thereof, and in and to said invention and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, for good and valuable consideration paid by said assignee to said assignor, the receipt and sufficiency of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said invention and to said application, including any divisions and continuations thereof, and in any patents which may be granted therefor, including any renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said invention and said application, including any divisions and continuations thereof, and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any such patents when granted, including any renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made;

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any acts relating to the obtaining or to the asserting of said patents, including any renewals, reissues and prolongations thereof;

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue a Patent on said application, and on any divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

ASSIGNMENT OF APPLICATION FOR UNITED STATES PATENT

Signature: Richard David Guarino

Date: 04/02/04

First Inventor: RICHARD DAVID GUARINO

Citizenship: U.S.

Residence and Post Office Address: 509 Sturminster Drive, Holly Springs, North Carolina 25740

State of North Carolina

County of WAKE SS:

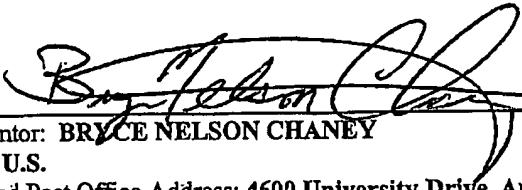
Before me personally appeared said RICHARD DAVID GUARINO, and acknowledged the foregoing instrument to be his free act and deed this  
2 day of April, 2004

  
\_\_\_\_\_  
Notary Public

Seal

My Commission Expires: November 16, 2008

ASSIGNMENT OF APPLICATION FOR UNITED STATES PATENT

Signature: 

Date: 9/5/04

Second Inventor: BRYCE NELSON CHANEY

Citizenship: U.S.

Residence and Post Office Address: 4600 University Drive, Apt. 1722, Durham, North Carolina 27707

State of North Carolina)

County of WAKE) SS:

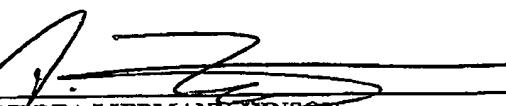
Before me personally appeared said BRYCE NELSON CHANEY, and acknowledged the foregoing instrument to be his free act and deed this  
5 day of April, 2004.

Seal

My Commission Expires: November 16, 2008

  
Notary Public

ASSIGNMENT OF APPLICATION FOR UNITED STATES PATENT

Signature: 

Date: 4-5-04

Third Inventor: ANDREA LIEBMANN-VINSON

Citizenship: Germany

Residence and Post Office Address: 611 November Court, Willow Springs, North Carolina 27592

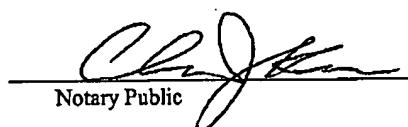
State of North Carolina)

County of WAKE) SS:

Before me personally appeared said ANDREA LIEBMANN-VINSON, and acknowledged the foregoing instrument to be his free act and deed  
this 5 day of April 1, 2004.

Seal

My Commission Expires: November 16, 2008

  
Notary Public



ASSIGNMENT OF APPLICATION FOR UNITED STATES PATENT

Signature: Perry D. Haaland

Date: 4-05-04

Fourth Inventor: PERRY D. HAALAND

Citizenship: U.S.

Residence and Post Office Address: 8914 Laurel Springs Drive, Chapel Hill, North Carolina 27516

State of North Carolina)

County of WAKE) SS:

Before me personally appeared said **PERRY D. HAALAND**, and acknowledged the foregoing instrument to be his free act and deed this 5 day of April, 2004.

Seal

  
Notary Public

My Commission Expires: November 16, 2008

ASSIGNMENT OF APPLICATION FOR UNITED STATES PATENT

Signature: Mohammad A. Heidaran

Date: 4/2/04

Fifth Inventor: MOHAMMAD A. HEIDARAN

Citizenship: U.S.

Residence and Post Office Address: 207 Painted Fall Way, Cary, North Carolina 27513

State of North Carolina)

County of Wake) SS:

Before me personally appeared said MOHAMMAD A. HEIDARAN, and acknowledged the foregoing instrument to be his free act and deed  
this 2 day of April, 2004.

Seal

Notary Public

My Commission Expires: November 16, 2008